

TRANSMITTAL OF RULES ADOPTED

FROM: STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS & LAND SURVEYORS
(Name of Agency)

TO: CODE REVISER
LEGISLATIVE BLDG (Southwest Corner, Ground Floor)
Olympia 98501

The enclosed Permanent rules , being order No. PL-115
Emergency rules

relating to (Name of rules or description of subject matter)

- (1) Engineers-in-training: examinations, fees, correspondence address;
- (2) Professional engineers: experience records, branches of registration, corporation or joint stock association applications.
- (3) Land Surveyors: application, experience records, examinations, reciprocity;
- (4) Reciprocity registration: examinations and correspondence address.

(ALTERNATIVE A. Use only for adoption of permanent rules)

pursuant to Notice No. 3205 ① filed with the code reviser on 10/19/71 ② were regularly adopted as permanent rules of this agency at Seattle, Washington on 11/12/71 and are herewith filed in the office of the code reviser pursuant to chapter 34.04 RCW. The effective date of such rules shall be _____ ③

(ALTERNATIVE B. Use only for adoption of emergency rules)

pursuant to its finding that the immediate adoption of these rules is necessary for the preservation of the public health, safety, or general welfare and that observance of the requirements of notice and opportunity to present views on the proposed action would be contrary to the public interest, were regularly adopted as emergency rules of this agency at _____ on _____ and are herewith filed in the office of the code reviser pursuant to chapter 34.04 RCW.

The undersigned hereby certifies that the requirements of chapter 34.04 RCW and of the Open Public Meetings Act of 1971, chapter 42.30 RCW (1971 ex.s. c 250) have been fulfilled.

Dated this 19 day of November 19 71.

STATE OF WASHINGTON
FILED
NOV 24 1971
CODE REVISER'S OFFICE
KET-3774 FILE # 3

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS & LAND SURVEYORS
(AGENCY)

Frederick R. Bergseth
By FREDERICK R. BERGSETH, Chairman
CHAIRMAN
Title

- ① NOTICE NUMBER AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE NO. OF LAST NOTICE)
- ② STAMPED DATE AS APPEARS ON THE COPY OF NOTICE RETURNED TO YOU BY REVISER'S OFFICE (IF PROCEEDINGS WERE CONTINUED, USE DATE OF LAST NOTICE)
- ③ UNLESS A LATER DATE IS SPECIFIED IN THIS ORDER OR IS PRESCRIBED IN ANOTHER STATUTE, RULES ARE EFFECTIVE 30 DAYS AFTER FILING: RCW 34.04.040. LEAVE THIS SPACE BLANK EXCEPT IN SUCH SPECIAL CASES.

STATE OF WASHINGTON

PROFESSIONAL ENGINEERS AND LAND SURVEYORS

ADMINISTRATIVE ORDER NO. PL-115

I, FREDERICK R. BERGSETH, chairman of the Board of Registration for Professional Engineers and Land Surveyors, by virtue of the authority vested in the Board, after filing Notice No. 3205 with the Code Reviser, and notifying the press in accordance with RCW 42.32.010, and also notifying all interested persons, state that a public hearing was held before the Board which was open to the public on Friday, November 12, 1971.

After considering statements made at the hearing and material submitted by interested persons, the Board adopted on November 12, 1971, the annexed rules and regulations and authorized me to sign this order.

This order, after first being recorded in the registry of this agency, shall be forwarded to the Code Reviser for filing pursuant to chapter 34.04 RCW.

APPROVED AND SIGNED this 19th day of November, 1971.



FREDERICK R. BERGSETH, Chairman
Board of Registration for Professional
Engineers and Land Surveyors

WAC 196-12-020 EXPERIENCE RECORDS. (1) Evaluation records: The basic requirement for registration as a professional engineer is a specific record of eight years or more of approved experience in engineering work of a professional grade. The provisions of the law are that any experience gained by college study, as defined below, must be substantiated by an official transcript, the supplying of which is the responsibility of the applicant.

(a) Graduation in an approved engineering college curriculum of four years is equivalent to four years of the required experience.

AMD (b) Satisfactory completion of each year of such an approved engineering curriculum is equivalent to one year of experience.

(c) Graduation in a curriculum other than engineering will be evaluated by the board.

(d) Postgraduate study in engineering may be given credit up to one year.

(e) Engineering teaching of a character satisfactory to the board may be recognized as engineering experience, up to a maximum of two years.

(2) Colleges recognized by the board: All student's credits from curricula approved by the Engineers Council for Professional Development are accepted. In the state of Washington student's credits from other curricula than those approved by the Engineers' Council for Professional Development may be accepted at the discretion of the board.

WAC 196-12-030 EXAMINATIONS. (1) The examinations are given in two parts: (a) Fundamentals, and (b) Branch, each of one day's duration. The fundamental and branch examinations consist of two sessions, one from 9:00 a.m. to noon and the other from 1:00 p.m. to 5:00 p.m. An applicant failing either the fundamental or branch examination and passing the other has only to repeat the part failed. An applicant may choose to take either the fundamental or branch portion at one examination, and the remaining part at a subsequent examination. All examinations are given with open book unless specified otherwise by the board. Engineering Fundamentals cover the following subjects:

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Mathematics	Dynamics
Chemistry	Mechanics of Materials
Fluid Mechanics	Physics
Thermodynamics	Electrical Theory
Statics	Economic Analysis

For the specific branch of engineering under which the applicant desires to qualify, see WAC 196-12-080.

(2) The following rules shall apply:

(a) Applicants who hold Washington Engineer-in-Training certificates are only required to take the examination in the specific branch of engineering under which they desire to qualify.

(b) Applicants who hold valid E.I.T. certificates issued to them by other states by virtue of a written examination comparable to that given by the state of Washington may be exempted from taking either the E.I.T. or the fundamental examination.

(c) All applicants regardless of experience record are required to take the examination in the specific branch of engineering under which they desire to qualify.

(3) When and where held: Examinations for professional licenses are held each year in the spring at Seattle, Spokane,

and Richland. Examinations are held only in Seattle during the winter each year.

WAC 196-12-080 BRANCHES OF REGISTRATION. The state of Washington conducts examinations and issues certificates in each of the following branches:

Aeronautical	Mechanical
Agricultural	Metallurgical
Ceramic	Mining
Chemical	Naval Architecture and Marine Engineering
Civil	Nuclear
Electrical	*Specialized Branches
Industrial	*Hydraulic
Land Surveying	*Sanitary
Logging	*Structural

Examinations in the branches of Civil, Mechanical, Electrical, and Chemical Engineering are given twice a year, in the spring and winter. ALL OTHER BRANCHES will be given in the spring only.

*Specialized branches: Hydraulic Engineering, Sanitary Engineering, and Structural Engineering are considered by the board to be specialized branches of engineering; therefore, applicants for registration in any one of these three fields shall have prior registration as a Professional Engineer and shall have not less than two years of professional experience in the specialized field in which the applicant seeks registration, over and above the requirements for professional registration (statutory eight years).

The examination in Structural Engineering shall be of two full days' duration. Examinations in Hydraulic and Sanitary Engineering shall be of one day's duration. The board will examine candidates for these specialized branches during the spring examination session only.

WAC 196-12-085 CORPORATION OR JOINT STOCK ASSOCIATIONS SHALL FILE. (1) A letter of application containing a brief statement of the corporations origin, activities, principals, and experience in the field of engineering, signed and attested by the corporate officers.

(2) A certified copy of a resolution of the board of directors of the corporation which shall designate a person holding a certificate of registration under this chapter as responsible for the practice of engineering by said corporation in this state and shall provide that full authority to make all final engineering decisions on behalf of said corporation with respect to work performed by the corporation in this state shall be granted and delegated by the board of directors to the person so designated in said resolution: PROVIDED, That the filing of such resolution shall not relieve the corporation of any responsibility or liability imposed upon it by law or by contract.

(3) A designation in writing setting forth the name or names of a person or persons holding certificates of registration under this chapter who shall be in responsible charge of each project and each major branch of the engineering activities in which the corporation shall specialize in this state. In the event there shall be a change in the person or persons in responsible charge of any project or major branch of the engineering activities, such changes shall be designated in writing and filed with the board within thirty days after the effective date of

such changes.

(4) A certified copy of a section of the bylaws of the corporation containing provisions that all engineering decisions pertaining to any project or engineering activities in this state shall be made by the specified engineer in responsible charge or other responsible engineer under his direction or supervision.

(5) The application for certificate states the type, or types, of engineering practiced, or to be practiced by such corporation. Type or types are limited to those listed herein under the bylaws rules of procedure as branches of registration.

(6) A current certified financial statement accurately reflecting the financial condition of the corporation. Certification shall be by an officer of the corporation or a public accountant.

(7) A list of the engineering personnel currently employed, designated under (1) and (2) above, retained, or active stockholders of the corporation together with the professional records of those individuals.

(8) The application for certificate of authorization shall state the experience of the corporation, if any, in furnishing engineering services during the preceding five year period and state the experience of the corporation, if any, in the furnishing of all feasibility and advisory studies made within the state of Washington.

(9) A copy of the articles of incorporation as filed with the secretary of state for the state of Washington and bearing his acceptance stamp.

(10) A copy of the bylaws of the corporation and any revisions to the bylaws, from time to time that may affect the ability of the designated engineer to make all engineering decisions as set forth in (4) above.

(11) Items (1) through (11) shall be submitted as specific items or exhibits for each application except those organized solely by a group of engineers (18.43.130(8)).

(12) In the case of change or increase in the engineers named as being in responsible charge, charge of branch, or charge of project, additional certificates of designation and the professional history of the named engineers only will be required.

(13) A copy of the current brochure, if any, now issued by the applicant corporation.

AMD WAC 196-12-090 CORRESPONDENCE. All correspondence will be addressed to the Washington State Board of Registration for Professional Engineers and Land Surveyors, Division of Professional Licensing, P. O. Box 649, Olympia, Washington 98504.

All checks and money orders paid in fees or any other purpose will be made payable to the state treasurer.

AMD WAC 196-16-007 APPLICATIONS. The deadline for receipt of applications, properly filled out and accompanied by the statutory fifteen dollar application fee, are February 1st for the spring examination and October 1st for the winter examination. Applications received after the deadline dates shall be held for consideration for the next examination. All persons, including those who have previously taken the examination and failed and those who failed to appear after filing, are required to notify the secretary by February 1st and October 1st if they intend to appear for the next examination. In such cases, where an applicant has previously taken the examination and failed, a new

application form is not required.

WAC 196-16-010 EXPERIENCE RECORDS. The first requirement of the law for registration as a professional land surveyor is a minimum of six years of approved professional experience in land surveying of which two years must be in boundary surveying in the field. The provisions of the law are that:

AND (1) Graduation in a recognized engineering curriculum of four years or more from a college recognized by the board is equivalent to four years of the required experience.

(2) Satisfactory completion of each year of such recognized engineering course is equivalent to one year of experience.

(3) Graduation in a curriculum other than engineering will be evaluated by the board and may be considered as equivalent to two years of such required experience. It is the responsibility of the applicant to see that the board is furnished a transcript of his college record when education is claimed as experience.

(4) Engineering teaching of a character satisfactory to the board may be recognized as surveying experience up to a maximum of one year.

(5) A registered professional engineer who applies to be examined to become certified as a land surveyor is required to have two years acceptable land surveying experience, over and above his eight years acceptable engineering experience. This requires a total of ten or more years experience. A professional land surveyor who applies to be examined to become a professional engineer is required to have four years acceptable engineering experience in his branch, over and above the statutory six years of acceptable land surveying experience. This also requires a total of ten years experience.

WAC 196-16-020 EXAMINATIONS. The land surveying examination consists of two full eight hour sessions given at the regular examination period. All examinations are given open book unless otherwise specified by the board. The examination is written and consists of two separate parts in two consecutive days. Each day is divided into two sessions from 8:00 a.m. to noon and from 1:00 p.m. to 5:00 p.m.

(1) First day - - Land surveying - Rules and legal questions.

(2) Second day - - Land surveying - Practical applied surveying problems.

AND A candidate may elect to sit for the examination in two consecutive days or may sit for one part at one examination and the other part at a subsequent examination.

Each day's examination is graded separately; as an example, if an applicant fails the first day's examination and passes the second day he will have to repeat the first day's examination at a subsequent examination date.

A candidate must receive a percentage of seventy percent in the combined total of written examination and experience. This is made up by averaging the grades on the examination papers plus one half of one percent for each year of approved experience (after the statutory six years). No candidate can be considered as having passed who receives less than sixty percent in either the rules and legal questions or practical applied surveying portions of the examination. The maximum percentage that may be allowed for experience is ten percent.

NEW WAC 196-16-030 RECIPROCITY. (1) Applicants for land surveying by reciprocity, who have been qualified by examination, will be exempt from the second day's test. All applicants are required to sit for rules and legal questions.

(2) One branch only as professional engineer or land surveyor will be issued by reciprocity. Each added branch requires a new application.

NEW WAC 196-16-060 CORRESPONDENCE. All correspondence will be addressed to the Washington State Board of Registration for Professional Engineers and Land Surveyors, Division of Professional Licensing, P. O. Box 649, Olympia, Washington 98504. Telephone 753-6966.

WAC 196-20-030 EXAMINATIONS. (1) The engineer-in-training examination is given in the spring of each year at Gonzaga University in Spokane, Washington State University in Pullman, University of Washington in Seattle, and in the winter each year at the University of Washington in Seattle, Washington State University in Pullman, or at other places as may from time to time be designated by the board. The examination is of one day's duration and consists of two four hour sessions from eight o'clock a.m. to twelve o'clock noon and from one o'clock p.m. to five o'clock p.m. which covers the following engineering fundamentals: Mathematics, chemistry, fluid mechanics, thermodynamics, statics, dynamics, mechanics of materials, physics, electrical theory, and economic analysis. The minimum passing grade is seventy percent.

AMD (2) The board will not require a certificate from the registrar of the applicant's college in anticipation of graduation as a prerequisite to sit for the E.I.T. examination. Persons who may normally expect to graduate no later than the end of the summer quarter or semester may sit for the spring E.I.T. examination. Those persons who may be expected to graduate at the end of the first quarter or semester of the academic year may sit for the winter examination. In cases where college graduation is claimed as a prerequisite no certificate will be issued until a college transcript showing completion of the four year requirement and the degree granted is filed with the secretary of the board.

(3) Those who pass this examination receive engineer-in-training certificates and are excused from taking the engineering fundamentals portion of the regular professional engineering examination. The E.I.T. passing grade will not be weighted in the professional examination but will be qualifying only.

(4) All examinations will be given with open book unless otherwise specified by the board.

AMD WAC 196-20-040 FEES. The ten dollar engineer-in-training fee covers cost of examination and issuance of certificates. An applicant who fails one examination may be reexamined once without payment of additional fee. If he fails again, he must submit a further ten dollar fee before he may reappear for examination. There is no annual renewal fee for engineer-in-training.

NEW WAC 196-20-050 CORRESPONDENCE. All correspondence will be addressed to the Washington State Board of Registration for Professional Engineers and Land Surveyors, Division of Professional Licensing, P. O. Box 649, Olympia, Washington 98504.

All checks and money orders paid in fees or any other purpose will be made payable to the state treasurer.

AMD
WAC 196-24-050 EXAMINATION. (1) The branches in which certificates are presently issued are: Aeronautical, agricultural, ceramic, chemical, civil, electrical, industrial, logging, mechanical, metallurgical, mining, naval architecture and marine engineering, certificates on this basis will also be issued in land surveying. The branches of hydraulic, sanitary and structural engineering are considered to be specialized branches. An applicant for any of these is required to hold a certificate in Washington, in one of the regular 13 branches named above.

(2) Applicants for certification by reciprocity from states, territories, districts or countries who have been issued certificates without examination or in instances where such governmental body does not grant certificates to regularly qualified registrants of Washington will be required to sit for an examination to test the skill and knowledge of the applicant.

(3) The examination will be given in the branch chosen by the applicant from the list of regular branches given by this board.

(4) Such examinations are given after the board has approved the applicant's request and usually before one or more members of the board. These arrangements are set on dates mutually convenient to the applicant and the board.

(5) In cases where an applicant is issued a certificate by his governmental agency not included in the list of regular branches ((1) of this section) the board will examine such an applicant in one of these regular branches of his choice, presumably the one closest to his specialty.

(6) The land surveyor examination in Washington consists of two parts:

(a) First day--eight o'clock a.m. to five o'clock p.m. land surveying and legal questions.

(b) Second day--eight o'clock a.m. to five o'clock p.m. land surveying-practical applied surveying problems.

Applicants for land surveying by reciprocity, who have been qualified by examination, will be exempt from the second day test. All applicants are required to sit for rules and legal questions (first day).

(7) One branch only as professional engineer or land surveyor will be issued by reciprocity. Each added branch requires a new application.

(8) All examinations are given with open book unless otherwise specified by the board.

AMD
WAC 196-24-070 CORRESPONDENCE. All correspondence will be addressed to the Washington State Board of Registration for Professional Engineers and Land Surveyors, Division of Professional Licensing, P. O. Box 649, Olympia, Washington 98504.

All checks and money orders paid in fees or any other purpose will be made payable to the state treasurer.